

DOCKET NO.: 213260US0

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN RE APPLICATION OF: :

Hans RIES, et al. :

SERIAL NO.: NEW APPLICATION :

FILED: HERewith :

FOR: POLYAMIDE COMPOSITE HAVING TWO OR MORE LAYERS

**PRELIMINARY AMENDMENT**

ASSISTANT COMMISSIONER FOR PATENTS  
WASHINGTON, D.C. 2031

SIR:

Prior to examination on the merits, please amend the above-identified application as follows.

**IN THE SPECIFICATION**

Please amend the paragraph at page 5, lines 19-20 to read as follows:

wherein the molding composition of layer I is obtained by subjecting a blend comprising polyamide a) and polyamide b) to solid-phase post-condensation.

**IN THE CLAIMS**

Please amend Claim 32 as follows:

32. (Amended) A composite having two or more layers and comprising:

a layer I obtained from a molding composition comprising:

a) from 0 to 80 parts by weight of a polyamide selected from the group consisting of PA6, PA66, PA6/66 and a mixture thereof;

b) from 0 to 100 parts by weight of a polyamine-polyamide copolymer prepared from the following monomers:

α) from 0.5 to 25% by weight, based on the polyamine-polyamide copolymer, of a polyamine having at least 4 nitrogen atoms and having a number-average molecular weight  $M_n$  of at least 146 g/mol, and

β) a polyamide-forming monomer selected from the group consisting of a lactam, a ω-aminocarboxylic acid, an equimolar combination of a diamine and a dicarboxylic acid and a mixture thereof; and

c) from 0 to 80 parts by weight of a polyamide selected from the group consisting of PA11, PA12, PA612, PA1012, PA1212 and a mixture thereof;

wherein a total of the parts by weight of components a), b) and c) is 100;

wherein at least 20 parts by weight of components a) and b) is a monomer unit which is obtained from caprolactam and/or from a combination of hexamethylenediamine/adipic acid; and

wherein at least 20 parts by weight of components b) and c) is a monomer unit which is obtained from ω-aminoundecanoic acid, laurolactam, a mixture of hexamethylenediamine and 1,12-dodecanedioic acid, a mixture of 1,10-decanediamine and 1,12-dodecanedioic acid, and/or a mixture of 1,12-dodecanediamine and 1,12-dodecanedioic acid;

wherein the molding composition of layer I is obtained by subjecting a blend comprising polyamide a) and polyamide b) to solid-phase post-condensation.

#### **BASIS FOR THE AMENDMENT**

The specification and Claim 32 have been amended to recite proper language and to correct minor typographical errors.

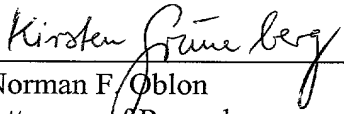
No new matter is believed to have been added by entry of this amendment. Entry and favorable consideration are respectfully requested.

Upon entry of this amendment Claims 1-36 will be active in this application.

Applicants submit that the present application is now in condition for examination on the merits and early notice of such action is earnestly solicited.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,  
MAIER & NEUSTADT, P.C.

  
\_\_\_\_\_  
Norman F. Oblon  
Attorney of Record  
Registration No.: 24,618

Kirsten A. Grueneberg, Ph.D.  
Registration No.: 47,297



**22850**

TEL: 703-413-3000

FAX: 703-413-2220

NFO:KAG:aps:lcd

I:\user\KGRUN\213260US0.PAMEND.wpd

**Marked-Up Copy**  
Serial No: **NEW APPLICATION**  
Amendment Filed on: **12/21/01**

**IN THE SPECIFICATION**

Please amend the paragraph at page 5, lines 19-20 to read as follows:

wherein the molding composition of layer I is [said polyamide a) and said polyamide c) are] obtained by subjecting [subjected] a [polyamide] blend comprising polyamide a) and polyamide b) to solid-phase post-condensation.

**IN THE CLAIMS**

32. (Amended) A composite having two or more layers and comprising:

a layer I obtained from a molding composition comprising:

- a) from 0 to 80 parts by weight of a polyamide selected from the group consisting of PA6, PA66, PA6/66 and a mixture thereof;
- b) from 0 to 100 parts by weight of a polyamine-polyamide copolymer prepared from the following monomers:
  - $\alpha$ ) from 0.5 to 25% by weight, based on the polyamine-polyamide copolymer, of a polyamine having at least 4 nitrogen atoms and having a number-average molecular weight  $M_n$  of at least 146 g/mol, and
  - $\beta$ ) a polyamide-forming monomer selected from the group consisting

of a lactam, a  $\omega$ -aminocarboxylic acid, an equimolar combination of a diamine and a dicarboxylic acid and a mixture thereof; and

c) from 0 to 80 parts by weight of a polyamide selected from the group consisting of PA11, PA12, PA612, PA1012, PA1212 and a mixture thereof;

wherein a total of the parts by weight of components a), b) and c) is 100;

wherein at least 20 parts by weight of components a) and b) is a monomer unit which is obtained from caprolactam and/or from a combination of hexamethylenediamine/adipic acid; and

wherein at least 20 parts by weight of components b) and c) is a monomer unit which is obtained from  $\omega$ -aminoundecanoic acid, laurolactam, a mixture of hexamethylenediamine and 1,12-dodecanedioic acid, a mixture of 1,10-decanediamine and 1,12-dodecanedioic acid, and/or a mixture of 1,12-dodecanediamine and 1,12-dodecanedioic acid;

wherein the molding composition of layer I is [said polyamide a) and said polyamide c) are] obtained by subjecting [subjected] a [polyamide] blend comprising polyamide a) and polyamide b) to solid-phase post-condensation.